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**Inspection Report for  
Cochiti Community Development Corp.  
Cochiti Lake, NM**



**200KG Steel On-Grade Tank**

**Date Completed: November 10, 2016**

**Commercial Dive Team:**

**Diver –Mikel Hochleutner  
Dive Controller –Kyle Colvin  
Tender –Mack Thorell**

## Scope of Work:

Our team completed sediment removal using underwater vacuum equipment. Sediment depth, averaging 1 inch (sand, iron & manganese), was removed from the tank floor. When the cleaning process was finished, a full visual inspection was performed of the tank interior and all interior fixtures. The team also performed a full visual inspection of the tank exterior and all attached fixtures. The details of the inspection findings are included in the report below.

## Summary of the Inspection:

### Exterior Inspection

1. There was good access to the tank.
2. The ladder was found secure, OSHA approved and in good condition with oxidation noted.
3. The roof was found in good condition with low spots, oxidation, minor de-lamination and 3% surface corrosion noted.
4. The hatch was found locked with a partial gasket present and in good condition with minor de-lamination, oxidation and 5% corrosion noted. A new gasket was installed.
5. The wall was found in good condition with dents and oxidation noted.
6. The vent was found in good condition with oxidation and 3% surface corrosion noted and a screen in place.
7. The base of the tank was found in good condition.
8. The manway was found secure and in excellent to good condition.
9. The float level indicator was found in poor condition with a broken pulley & cable and 5% surface corrosion noted.

### Interior Inspection

1. The inlet was found in good condition with 2% concentrated cell corrosion & rust noduling noted.
2. The outlet was found in good condition with rust noduling and 4% corrosion noted.
3. The ladder was found secure and in good condition with less than 1% concentrated cell corrosion & rust noduling noted and oil present.
4. The manway was found in good condition with heavy sediment staining and less than 1% concentrated cell corrosion & rust noduling noted.
5. The overflow was found in good condition with less than 1% surface corrosion noted and oil present.
6. The interior roof was found in good condition with less than 1% surface corrosion noted.
7. The interior wall was found in good condition with less than 1% concentrated cell corrosion & rust noduling noted and oil present on the upper section.
8. The support column was found secure and in good condition with less than 1% concentrated cell corrosion & rust noduling noted and oil present on the upper section.
9. The floor was found in good condition with pitting, sediment staining and 2% concentrated cell corrosion & rust noduling noted.
10. The float was found in good condition but one of the guidewires was not attached and there was 50% concentrated cell corrosion & rust noduling noted on the hardware.
11. *The oil that is present appears to be a food based hydraulic oil commonly used to lubricate water pumps in potable water system and this oil is typically not harmful.*

## Recommendations:

1. Drain the tank and have it pressure washed to eliminate the oil as soon as budgets allow.
2. Schedule time for epoxy repairs to the problem areas in the tank. (Approximately 1 day)
3. Schedule time to clean and inspect every 3-5 years per AWWA recommendations.

## Key

**Excellent – Like new, no repairs needed**

**Good – Cosmetic problems, repair if utility wants**

**Fair – Minor problems, repairs needed**

**Poor – Major problems, fix now**



# Inland Potable Services, Inc.

## Exterior Inspection Report



### Access Ladder Condition

Ladder Type: Steel  
Coating Condition: Good  
Corrosion Present? Y ☐ N ☒  
Seams/Welds Condition: Good  
Oxidation Present? Y ☒ N ☐  
De-lamination Present? Y ☐ N ☒  
Stand Off Supports Condition: Good  
Safety Climb Type: Cage  
Safety Climb Condition: Good  
Is Top Of Tank Easily Accessible? Y ☒ N ☐  
Is Ladder and Safety Climb **OSHA** Approved? Y ☒ N ☐

Summary: The ladder was found secure, OSHA approved and in good condition with oxidation noted.



### Roof Condition

Coating Condition: Good  
Corrosion Present? Y ☒ N ☐  
Percentage: 3%  
Seams/Welds Condition: Good  
Oxidation Present? Y ☒ N ☐  
De-lamination Present? Y ☒ N ☐  
Low Spots Present? Y ☒ N ☐  
Holes in Roof? Y ☐ N ☒  
Cathodic Protection Plates Present? Y ☐ N ☒  
Sealed Edges: Y ☐ N ☐ N/A ☒  
Loose Plates? Y ☐ N ☐ N/A ☒  
Missing Plates? Y ☐ N ☐ N/A ☒

Summary: The roof was found in good condition with low spots, oxidation, minor de-lamination and 3% surface corrosion noted.



### Access Hatch Condition

Coating Condition: Good  
Corrosion Present: Y ☒ N ☐  
Seams/Welds Condition: Good  
Oxidation Present? Y ☒ N ☐  
De-lamination Present? Y ☒ N ☐  
Hatch Size: 2 foot square  
Hatch Locked? Y ☒ N ☐  
Hinge Condition: Good  
Gasket Present? Y ☒ N ☐  
Intact? Y ☐ N ☒ N/A ☐  
Insects, Dirt Or Debris Present Under Hatch? Y ☐ N ☒

Summary: The hatch was found locked with a partial gasket present and in good condition with minor de-lamination, oxidation and 5% corrosion noted. A new gasket was installed.



### Wall Panel Condition

Coating Condition: Good

Corrosion Present? Y ☐ N ☒

Percentage: N/A

Seams/Welds Condition: Good

Oxidation Present? Y ☒ N ☐

De-lamination Present? Y ☐ N ☒

Dents Present? Y ☒ N ☐

Holes Present? Y ☐ N ☒

Summary: The wall was found in good condition with dents and oxidation noted.



### Vent Condition

Coating Condition: Good

Corrosion Present: Y ☒ N ☐

Percentage: 3%

Seams/Welds Condition: Good

Oxidation Present? Y ☒ N ☐

De-lamination Present? Y ☐ N ☒

Screen in Place? Y ☒ N ☐

Condition: Good

All Openings Sealed? Y ☒ N ☐

Cap Condition: Good

Summary: The vent was found in good condition with oxidation and 3% surface corrosion noted and a screen in place.



### Foundation Condition

Foundation Exposed? Y ☐ N ☒  
Anchor Bolts Present? Y ☐ N ☒  
Corrosion on Anchor Bolts Present? Y ☐ N ☐ N/A ☒  
Anchor Bolts Loose? Y ☐ N ☐ N/A ☒

Cracking Noted In Foundation? Y ☐ N ☐ N/A ☒  
Spalling Noted? Y ☐ N ☐ N/A ☒

Summary: The base of the tank was found in good condition.



### Manway Condition

Coating Condition: Excellent  
Weld/Seam Condition: Good  
Corrosion Present? Y ☐ N ☒  
Percentage: N/A  
Pitting Noted In Metal? Y ☐ N ☒  
Depth: N/A

Summary: The manway was found secure and in excellent to good condition.





### Float Level Indicator Condition

Pulley Condition: Poor

Attached Properly? Y ☐ N ☒

Cable Condition: Poor

Attached Properly? Y ☐ N ☒

Hardware Condition: Good

Corrosion Present? Y ☒ N ☐

Marker Condition: Poor

Attached & Accurate? Y ☐ N ☒

Corrosion Present? Y ☒ N ☐

Summary: The float level indicator was found in poor condition with a broken pulley & cable and 5% surface corrosion noted.





# Inland Potable Services, Inc.

## Interior Inspection Report



### Inlet and Outlet Condition

Common Inlet/Outlet? Y ☐ N ☒ Location: N/A

If No:

Inlet Location: 11:50 o'clock

Coating Condition: Good

Weld/Seam Condition: Good

Corrosion Present? Y ☒ N ☐

Percentage: 2%

Pitting Noted In Metal? Y ☐ N ☒

Depth: N/A

Summary: The inlet was found in good condition with 2% concentrated cell corrosion & rust noduling noted.



Common Inlet/Outlet? Y ☐ N ☒ Location: N/A

If No:

Outlet Location: 1 o'clock

Coating Condition: Good

Weld/Seam Condition: Good

Corrosion Present? Y ☒ N ☐

Percentage: 4%

Pitting Noted In Metal? Y ☐ N ☒

Depth: N/A

Summary: The outlet was found in good condition with rust noduling and 4% corrosion noted.



### Ladder Condition

Ladder Location: 12 o'clock

Coating Condition: Good

Weld/Seam Condition: Good

Supports Condition: Good

Corrosion Present? Y ☒ N ☐

Percentage: less than 1%

Pitting Noted In Metal? Y ☐ N ☒

Depth: N/A

Summary: The ladder was found secure and in good condition with less than 1% concentrated cell corrosion & rust noduling noted and oil present. It appears to be a food based hydraulic oil commonly used to lubricate water pumps in potable water system and this oil is typically not harmful.



## Manway Condition

Manway Location: 3 o'clock  
Coating Condition: Good  
Weld/Seam Condition: Good  
Corrosion Present? Y ☒ N ☐  
Percentage: less than 1%  
Pitting Noted In Metal? Y ☐ N ☒  
Depth: N/A

Summary: The manway was found in good condition with heavy sediment staining and less than 1% concentrated cell corrosion & rust noduling noted.



## Overflow Condition

Overflow Location: 12:30 o'clock  
Coating Condition: Good  
Weld/Seam Condition: Good  
Corrosion Present? Y ☒ N ☐  
Percentage: less than 1%  
Pitting Noted In Metal? Y ☐ N ☒  
Depth: N/A

Summary: The overflow was found in good condition with less than 1% surface corrosion noted and oil present. It appears to be a food based hydraulic oil commonly used to lubricate water pumps in potable water system and this oil is typically not harmful.



## Roof Condition

Coating Condition: Good  
Welds/seam Condition: Good  
Corrosion Present On Panels? Y ☒ N ☐  
Percentage: less than 1%  
Metal De-alloying Noted? Y ☐ N ☒  
Percentage: N/A

Summary: The interior roof was found in good condition with less than 1% surface corrosion noted.





### Wall Panel Condition

Coating Condition: Good  
 Welds/seam Condition: Good  
 Corrosion Present On Panel? Y ☒ N ☐  
 Percentage: less than 1%  
 Pitting Noted In Metal? Y ☐ N ☒  
 Depth: N/A

Summary: The interior wall was found in good condition with less than 1% concentrated cell corrosion & rust noduling noted and oil present. It appears to be a food based hydraulic oil commonly used to lubricate water pumps in potable water system and this oil is typically not harmful.



### Support Column Condition

Coating Condition: Good  
 Welds/seam Condition: Good  
 Corrosion Present? Y ☒ N ☐  
 Percentage: less than 1%  
 Pitting Noted In Metal? Y ☐ N ☒  
 Depth: N/A

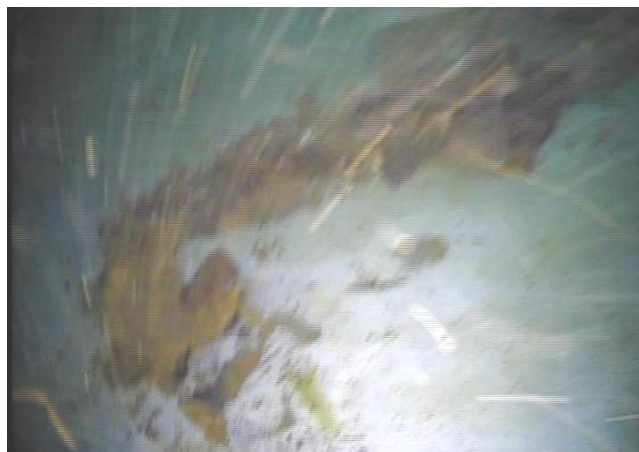
Summary: The support column was found secure and in good condition with less than 1% concentrated cell corrosion & rust noduling noted and oil present. It appears to be a food based hydraulic oil commonly used to lubricate water pumps in potable water system and this oil is typically not harmful.



## Floor Condition

Coating Condition: Good  
 Welds/seam Condition: Good  
 Corrosion Present? Y ☒ N ☐  
 Percentage: 2%  
 Pitting Noted In Metal? Y ☒ N ☐  
 Depth: 1/16 inch

Summary: The floor was found in good condition with pitting, sediment staining and 2% concentrated cell corrosion & rust noduling noted.

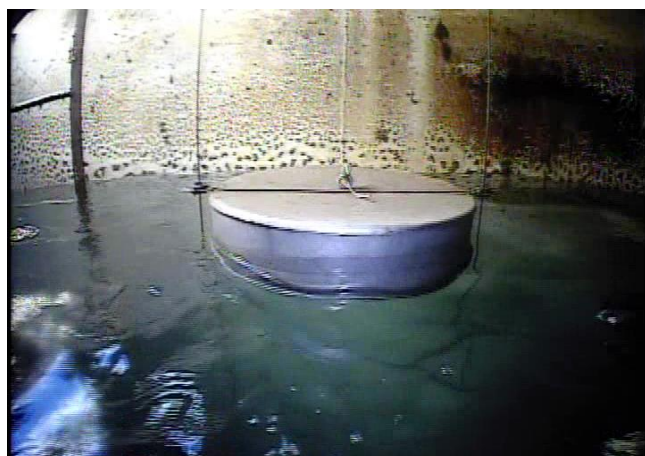


## Float Condition

Guidelines Condition: Fair  
 Attached Properly? Y ☐ N ☒  
 Cable Condition: Poor  
 Attached Properly? Y ☐ N ☒  
 Hardware Condition: Fair  
 Corrosion Present? Y ☒ N ☐  
 Percentage: 50%

Float Condition: Good

Summary: The float was found in good condition but one of the guidewires was not attached and there was 50% concentrated cell corrosion & rust noduling noted on the hardware.



Lower connection

Tank Layout

